Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	26	(primary adj storage$1) and (second adj storage) and (third adj storage) and read$3 and write$3	USPAT	OR	ON	2006/02/23 16:08
L2	367064	HITACHI, LTD.as.	USPAT	OR	ON	2006/02/23 16:09
L3	34382	HITACHI.as.	USPAT	OR	ON	2006/02/23 16:09
L4	3	HITACHI.as. and (primary adj storage$1) and (second adj storage) and (third adj storage) and read$3 and write$3 and controller	USPAT	OR	ON	2006/02/23 16:12
L5	0	"YAMAGAMI, KENJI"..in. and (primary adj storage$1) and (second adj storage) and (third adj storage) and read$3 and write$3 and controller	USPAT	OR	ON	2006/02/23 16:13
L6	17	"YAMAGAMI, KENJI"".in.and" (primary adj storage$1) and (second adj storage) and (third adj storage) and read$3 and write$3 and controller	USPAT	OR	ON	2006/02/23 16:13
L7	17	"YAMAGAMI-KENJI"".in.and" (primary adj storage$1) and (second adj storage) and (third adj storage) and read$3 and write$3 and controller	USPAT	OR	ON	2006/02/23 16:14
L8	17	"YAMAGAMI-KENJI.in.and" (primary adj storage$1) and (second adj storage) and (third adj storage) and read$3 and write$3 and controller	USPAT	OR	ON	2006/02/23 16:14
L9	0	"YAMAGAMI-KENJI.in" and (primary adj storage$1) and (second adj storage) and (third adj storage) and read$3 and write$3 and controller	USPAT	OR	ON	2006/02/23 16:15
L10	0	"YAMAGAMI-KENJI.in"	USPAT	OR	ON	2006/02/23 16:14
L11	0	"YAMAGAMI-KENJI.inv"	USPAT	OR	ON	2006/02/23 16:15
L12	0	"YAMAGAMI or KENJI.inv"	USPAT	OR	ON	2006/02/23 16:15
L13	0	"YAMAGAMI or KENJI"	USPAT	OR	ON	2006/02/23 16:15
L14	20829	YAMAGAMI or KENJI	USPAT	OR	ON	2006/02/23 16:15
L15	0	(YAMAGAMI or KENJI) and (primary adj storage$1) and (second adj storage) and (third adj storage) and read$3 and write$3 and controller	USPAT	OR	ON	2006/02/23 16:16

L16	0	(YAMAGAMI or KENJI) and (primary adj storage$1) and (second adj storage) and (third adj storage) and controller	USPAT	OR	ON	2006/02/23 16:16
L17	2	(YAMAGAMI or KENJI) and (primary adj storage$1) and controller	USPAT	OR	ON	2006/02/23 16:20
L18	18	(YAMAGAMI or KENJI) and (primary adj storage$1) and controller	US-PGPUB; USPAT	OR	ON	2006/02/23 16:20
L19	98	(YAMAGAMI or KENJI) and storage$1 near controller	US-PGPUB; USPAT	OR	ON	2006/02/23 16:20
L20	3	(YAMAGAMI or KENJI) and storage$1 near3 controller same journal and mirror	US-PGPUB; USPAT	OR	ON	2006/02/23 16:21
S529	118848	storage$1 same computers	USPAT	OR	ON	2005/09/07 16:12
S530	6664	storage$1 same (computer$1 adj network)	USPAT	OR	ON	2005/09/07 16:12
S531	4	storage$1 same (computer$1 adj network) same (load adj balance$3)	USPAT	OR	ON	2005/09/07 16:14
S532	0	(primary adj storage$1) same (computer$1 adj network) same (load adj balance$3)	USPAT	OR	ON	2005/09/07 16:14
S533	0	(primary adj storage$1) same network same (load adj balance$3)	USPAT	OR	ON	2005/09/07 16:15
S534	0	(primary adj storage$1) same Internet same (load adj balance$3)	USPAT	OR	ON	2005/09/07 16:17
S535	0	(primary adj storage$1) and Internet same (load adj balance$3)	USPAT	OR	ON	2005/09/07 16:17
S536	20	(primary adj storage$1) and Internet and(load adj balance$3)	USPAT	OR	ON	2005/09/07 16:18
S537	0	(primary adj storage$1) same(load adj balance$3)	USPAT	OR	ON	2005/09/07 16:18
S538	25	(primary adj storage$1) and (load adj balance$3)	USPAT	OR	ON	2005/09/07 16:25
S539	3161	(primary adj storage$1) same (second adj storage) (load adj balance$3 or failover)	USPAT	OR	ON	2005/09/07 16:34
S540	2	(primary adj storage$1) same (second adj storage) and (load adj balance$3 or failover)	USPAT	OR	ON	2005/09/07 16:26
S541	522	storages same controllers and (load adj balance$3 or failover)	USPAT	OR	ON	2005/09/07 16:27

S542	117	storages same controllers same (load adj balance$3 or failover)	USPAT	OR	ON	2005/09/07 16:27
S543	12	storages same controllers same (load adj balance$3 or failover) same read$4 and write$3	USPAT	OR	ON	2005/09/07 16:28
S544	7	storages same (storage adj controllers) same (load adj balance$3 or failover) same read$4 and write$3	USPAT	OR	ON	2005/09/07 16:31
S545	0	storages same (data adj volume) same (load adj balance$3 or failover) same read$4 and write$3	USPAT	OR	ON	2005/09/07 16:32
S546	0	storages and (data adj volume) same (load adj balance$3 or failover) same read$4 and write$3	USPAT	OR	ON	2005/09/07 16:32
S547	3	storages and (data adj volume) and (load adj balance$3 or failover) same read$4 and write$3	USPAT	OR	ON	2005/09/07 16:32
S548	0	(primary adj storage$1) same (second adj storage) same (load adj balance$3 or failover)	USPAT	OR	ON	2005/09/07 16:34
S549	2	(primary adj storage$1) same (second adj storage) and (load adj balance$3 or failover)	USPAT	OR	ON	2005/09/07 16:36
S550	37	(primary adj storage$1) and (second adj storage) and (third adj storage)	USPAT	OR	ON	2005/09/07 16:36
S551	0	(primary adj storage$1) and (second adj storage) and (third adj storage) and failover	USPAT	OR	ON	2005/09/07 16:36
S552	1	(primary adj storage$1) and (second adj storage) and (third adj storage) and load adj balance	USPAT	OR	ON	2005/09/07 16:38
S553	24	(primary adj storage$1) and (second adj storage) and (third adj storage) and read$3 and write$3	USPAT	OR	ON	2005/09/07 16:38
S554	16	(primary adj storage$1) and (second adj storage) and (third adj storage) and read$3 and write$3 and controller	USPAT	OR	ON	2005/09/07 16:38
S555	12	(primary adj storage$1) and (second adj storage) and (third adj storage) and read$3 and write$3 and controller and volume	USPAT	OR	ON	2005/09/07 16:38

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IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

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1. **Quanta data storage: an information processing and transportation archi storage area networks**
Narasimhamurthy, S.B.; Gurumohan, P.C.; Sreenivasamurthy, S.; Hui, J.Y.;
Selected Areas in Communications, IEEE Journal on
Volume 23, Issue 10, Oct. 2005 Page(s):2032 - 2040
Digital Object Identifier 10.1109/JSAC.2005.854128
AbstractPlus | Full Text: PDF(616 KB) **IEEE JNL**
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2. **Scalable secure group communication over IP multicast**
Banerjee, S.; Bhattacharjee, B.;
Selected Areas in Communications, IEEE Journal on
Volume 20, Issue 8, Oct. 2002 Page(s):1511 - 1527
Digital Object Identifier 10.1109/JSAC.2002.803986
AbstractPlus | References | Full Text: PDF(504 KB) **IEEE JNL**
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3. **Layered quality adaptation for Internet video streaming**
Rejaie, R.; Handley, M.; Estrin, D.;
Selected Areas in Communications, IEEE Journal on
Volume 18, Issue 12, Dec. 2000 Page(s):2530 - 2543
Digital Object Identifier 10.1109/49.898735
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4. **On-board satellite "split TCP" proxy**
Luglio, M.; Sanadidi, M.Y.; Gerla, M.; Stepanek, J.;
Selected Areas in Communications, IEEE Journal on
Volume 22, Issue 2, Feb. 2004 Page(s):362 - 370
Digital Object Identifier 10.1109/JSAC.2003.819987
AbstractPlus | References | Full Text: PDF(312 KB) **IEEE JNL**
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5. **An active queue management scheme based on a capture-recapture mod**
Ming-Kit Chan; Hamdi, M.;
Selected Areas in Communications, IEEE Journal on
Volume 21, Issue 4, May 2003 Page(s):572 - 583
Digital Object Identifier 10.1109/JSAC.2003.810499

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☐ **6. Photonic network R&D activities in Japan-current activities and future pe**
Kitayama, K.; Miki, T.; Morioka, T.; Tsushima, H.; Koga, M.; Mori, K.; Araki, S.; H.; Namiki, S.; Aoyama, T.;
Lightwave Technology, Journal of
Volume 23, Issue 10, Oct. 2005 Page(s):3404 - 3418
Digital Object Identifier 10.1109/JLT.2005.856303
AbstractPlus | Full Text: PDF(1288 KB) **IEEE JNL**
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☐ **7. WebGraph: a framework for managing and improving performance of dyr content**
Mohapatra, P.; Huamin Chen;
Selected Areas in Communications, IEEE Journal on
Volume 20, Issue 7, Sep 2002 Page(s):1414 - 1425
Digital Object Identifier 10.1109/JSAC.2002.802072
AbstractPlus | References | Full Text: PDF(307 KB) **IEEE JNL**
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☐ **8. Rapid display of Web content: a simple method for prefetching Web files**
Leis, J.;
Computing & Control Engineering Journal
Volume 13, Issue 3, June 2002 Page(s):149 - 152
AbstractPlus | Full Text: PDF(446 KB) **IEE JNL**

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1 Real-time shading

Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi Rost

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(7.39 MB) Additional Information: full citation, abstract

Real-time procedural shading was once seen as a distant dream. When the first version of this course was offered four years ago, real-time shading was possible, but only with one-of-a-kind hardware or by combining the effects of tens to hundreds of rendering passes. Today, almost every new computer comes with graphics hardware capable of interactively executing shaders of thousands to tens of thousands of instructions. This course has been redesigned to address today's real-time shading capabili ...

2 High dynamic range imaging

Paul Debevec, Erik Reinhard, Greg Ward, Sumanta Pattanaik

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(20.22 MB) Additional Information: full citation, abstract

Current display devices can display only a limited range of contrast and colors, which is one of the main reasons that most image acquisition, processing, and display techniques use no more than eight bits per color channel. This course outlines recent advances in high-dynamic-range imaging, from capture to display, that remove this restriction, thereby enabling images to represent the color gamut and dynamic range of the original scene rather than the limited subspace imposed by current monitor ...

3 GPGPU: general purpose computation on graphics hardware

David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(63.03 MB) Additional Information: full citation, abstract

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

4 The elements of nature: interactive and realistic techniques

Oliver Deusen, David S. Ebert, Ron Fedkiw, F. Kenton Musgrave, Przemyslaw Prusinkiewicz, Doug Roble, Jos Stam, Jerry Tessendorf

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(17.65 MB) Additional Information: full citation, abstract

This updated course on simulating natural phenomena will cover the latest research and production techniques for simulating most of the elements of nature. The presenters will provide movie production, interactive simulation, and research perspectives on the difficult task of photorealistic modeling, rendering, and animation of natural phenomena. The course offers a nice balance of the latest interactive graphics hardware-based simulation techniques and the latest physics-based simulation techni ...

5 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

6 Facial modeling and animation

Jörg Haber, Demetri Terzopoulos

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(18.15 MB) Additional Information: full citation, abstract

In this course we present an overview of the concepts and current techniques in facial modeling and animation. We introduce this research area by its history and applications. As a necessary prerequisite for facial modeling, data acquisition is discussed in detail. We describe basic concepts of facial animation and present different approaches including parametric models, performance-, physics-, and learning-based methods. State-of-the-art techniques such as muscle-based facial animation, mass-s ...

7 Pen computing: a technology overview and a vision

André Meyer

July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Publisher: ACM Press

Full text available: pdf(5.14 MB) Additional Information: full citation, abstract, citings, index terms

This work gives an overview of a new technology that is attracting growing interest in

public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions.Starting with a short historic ...

8 Information storage and retrieval: a survey and functional description

Jack Minker
September 1977 **ACM SIGIR Forum**, Volume 12 Issue 2
Publisher: ACM Press
Full text available: pdf(5.14 MB) Additional Information: full citation, abstract, references

Information Storage and Retrieval (IS&R) encompasses a broad scope of topics ranging from basic techniques for accessing data to sophisticated approaches for the analysis of natural language text and the deduction of information. Within the field, three general areas of investigation can be distinguished not only by their subject matter but also by the types of individuals presently interested in them:(1) Document retrieval,(2) Generalized data management, and(3) Question-answering.A functional ...

Keywords: automatic indexing, data management, data structures, deductive search, information retrieval, natural language, problem solving, question-answering, relational data systems, theorem proving

9 Special issue: AI in engineering

D. Sriram, R. Joobbani
April 1985 **ACM SIGART Bulletin**, Issue 92
Publisher: ACM Press
Full text available: pdf(8.79 MB) Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

10 Special issue on knowledge representation

Ronald J. Brachman, Brian C. Smith
February 1980 **ACM SIGART Bulletin**, Issue 70
Publisher: ACM Press
Full text available: pdf(13.13 MB) Additional Information: full citation, abstract

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were twe useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Secon ...

11 Run-time adaptation in river

Remzi H. Arpaci-Dusseau
February 2003 **ACM Transactions on Computer Systems (TOCS)**, Volume 21 Issue 1
Publisher: ACM Press
Full text available: pdf(849.04 KB) Additional Information: full citation, abstract, references, index terms

We present the design, implementation, and evaluation of run-time adaptation within the River dataflow programming environment. The goal of the River system is to provide

adaptive mechanisms that allow database query-processing applications to cope with performance variations that are common in cluster platforms. We describe the system and its basic mechanisms, and carefully evaluate those mechanisms and their effectiveness. In our analysis, we answer four previously unanswered and important que ...

Keywords: Performance availability, clusters, parallel I/O, performance faults, robust performance, run-time adaptation

12 Three-dimensional medical imaging: algorithms and computer systems

M. R. Stytz, G. Frieder, O. Frieder

December 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 4

Publisher: ACM Press

Full text available: pdf(7.38 MB) Additional Information: full citation, references, citings, index terms, review

Keywords: Computer graphics, medical imaging, surface rendering, three-dimensional imaging, volume rendering

13 Shape-based retrieval and analysis of 3D models

Thomas Funkhouser, Michael Kazhdan

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(12.56 MB) Additional Information: full citation, abstract

Large repositories of 3D data are rapidly becoming available in several fields, including mechanical CAD, molecular biology, and computer graphics. As the number of 3D models grows, there is an increasing need for computer algorithms to help people find the interesting ones and discover relationships between them. Unfortunately, traditional text-based search techniques are not always effective for 3D models, especially when queries are geometric in nature (e.g., find me objects that fit into thi ...

14 Projectors: advanced graphics and vision techniques

Ramesh Raskar

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(6.53 MB) Additional Information: full citation

15 The state of the art in locally distributed Web-server systems

Valeria Cardellini, Emiliano Casalicchio, Michele Colajanni, Philip S. Yu

June 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 2

Publisher: ACM Press

Full text available: pdf(1.41 MB) Additional Information: full citation, abstract, references, citings, index terms

The overall increase in traffic on the World Wide Web is augmenting user-perceived response times from popular Web sites, especially in conjunction with special events. System platforms that do not replicate information content cannot provide the needed scalability to handle large traffic volumes and to match rapid and dramatic changes in the number of clients. The need to improve the performance of Web-based services has

produced a variety of novel content delivery architectures. This article w ...

Keywords: Client/server, World Wide Web, cluster-based architectures, dispatching algorithms, distributed systems, load balancing, routing mechanisms

16 The Quadtree and Related Hierarchical Data Structures

Hanan Samet
June 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 2
Publisher: ACM Press
Full text available: pdf(4.87 MB) Additional Information: full citation, references, citings, index terms

17 Crowd and group animation

Daniel Thalmann, Christophe Hery, Seth Lippman, Hiromi Ono, Stephen Regelous, Douglas Sutton
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press
Full text available: pdf(20.19 MB) Additional Information: full citation, abstract

A continuous challenge for special effects in movies is the production of realistic virtual crowds, in terms of rendering and behavior. This course will present state-of-the-art techniques and methods. The course will explain in details the different approaches to create virtual crowds: particle systems with flocking techniques using attraction and repulsion forces, copy and pasting techniques, agent-based methods. The architecture of software tools will be presented including the MASSIVE softwa ...

18 Serverless network file systems

T. E. Anderson, M. D. Dahlin, J. M. Neefe, D. A. Patterson, D. S. Roselli, R. Y. Wang
December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symposium on Operating systems principles SOSP '95**, Volume 29 Issue 5
Publisher: ACM Press
Full text available: pdf(2.48 MB) Additional Information: full citation, references, citings, index terms

19 Evolution of Data-Base Management Systems

James P. Fry, Edgar H. Sibley
March 1976 **ACM Computing Surveys (CSUR)**, Volume 8 Issue 1
Publisher: ACM Press
Full text available: pdf(2.63 MB) Additional Information: full citation, references, citings, index terms

20 Illustrative risks to the public in the use of computer systems and related technology

Peter G. Neumann
January 1996 **ACM SIGSOFT Software Engineering Notes**, Volume 21 Issue 1
Publisher: ACM Press
Full text available: pdf(2.54 MB) Additional Information: full citation